## AMENDMENTS TO THE CLAIMS

Docket No.: 27592-00275-US4

This listing of the claims will replace all prior versions and listing of the claims in this application.

## Listing of the Claims:

- 1. (Previously Presented) A closed circuit broadcast security receiver comprising: a data receiving device adapted for receiving video data from a radio module transmitter configured at a first location to be monitored, said first data receiving device including: a multi-antenna signal processing circuit being further adapted to: (a) receive M independent RF modulated input signals from said radio module transmitter and other radio module transmitters representing said video data; and (b) process said M independent RF modulated input signals using a channel mixing matrix and a signal from a second multi-antenna signal processing circuit to extract said video data transmitted by said radio module transmitter and other radio module transmitters.
- 2. (Previously Presented) The closed circuit broadcast security receiver of claim 1, wherein said multi-antenna signal processing circuit is enabled and selectively operates in a second mode when channel conditions indicate that a data rate in said channel has fallen below a predetermined threshold.
- 3. (Original) The closed circuit broadcast security receiver of claim 1, wherein said multi-antenna signal processing circuit is enabled and selectively operates in response to a determination that a data rate in said channel is to be enhanced above a nominal operating rate.
- 4. (Original) The closed circuit broadcast security receiver circuit of claim 1, wherein said multi-antenna signal processing circuit is enabled and selectively operates in response to a determination that there is noise and/or interference in said channel.
- 5. (Original) The closed circuit broadcast security receiver circuit of claim 1, wherein said multi-antenna signal processing circuit is compatible with an 802.11x communications protocol.

6. (Original) The closed circuit broadcast security receiver circuit of claim 1 wherein said multi-antenna signal processing circuit is configured as a multiple-in, multiple out (MIMO) processor.

- 7. (Original) The closed circuit broadcast security receiver circuit of claim 1, wherein said multi-antenna signal processing circuit demodulates a data stream transmitted using multiple independent antennas which each transmit a portion of said data stream, which data stream represents captured video from N separate radio module transmitters.
- 8. (Original) The closed circuit broadcast security receiver circuit of claim 1, wherein said multi-antenna signal processing circuit generates a speculative response to ensure that said data receiving device complies with timing requirements of a communications protocol.
- 9. (Original) The closed circuit broadcast security receiver circuit of claim 8, wherein said timing requirements are associated with an 802.11x compatible data link.
- 10. (Previously Presented) A closed circuit video system comprising: a first data capture device for monitoring and capturing video data from a first location; said first data capture device further including a radio module transmitter to transmit said data to a second data storage location; a first data receiving device at a second separate location for receiving said video data from said radio module transmitter, said first data receiving device including: a multi-antenna signal processing circuit being further adapted to: (a) receive M independent RF modulated input signals from said radio module transmitter and other radio module transmitters representing said video data; and (b) process said M independent RF modulated input signals using a channel mixing matrix and a signal from a second multi-antenna signal processing circuit to extract said video data transmitted by said radio module transmitter and other radio module transmitters; a data storage device for storing said video data captured from said first monitored location and transmitted to said first data receiving device.
- 11. (Original) The closed circuit video system of claim 10, wherein said first data capture device is used as part of a security system.

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12. (Original) The closed circuit video system of claim 10, wherein said multiantenna signal processing circuit is incorporated within a personal digital assistant.

- 13. (Original) The closed circuit video system of claim 10, wherein said first data capture device is a digital camera.
- 14. (Original) The closed circuit video system of claim 10, wherein said multiantennal signal processing circuit receives and processes video data from N radio module transmitters simultaneously.
- 15. (Original) The closed circuit video system of claim 10 wherein said radio module transmitter is configured to transmit said RF modulated signals selectively to said second separate location.
- 16. (Original) The closed circuit video system of claim 10 wherein said first data capture device transmits said video data using N separate antennas simultaneously as N separate bit streams.
- 17. (Previously Presented) A radio frequency (RF) multi-antenna video data receiver implemented in a single chip integrated circuit chip (IC) comprising: a multi-antenna signal processing circuit within the single chip IC being adapted to: (a) receive M independent RF modulated input signals from N separate video camera radio module transmitters, where N>1; and (b) simultaneously process said M independent RF modulated input signals using a channel mixing matrix and a signal from a second multi-antenna signal processing circuit\_to extract N video data signals transmitted by said N separate video camera radio module transmitters; wherein said multi-antenna signal processing circuit is operated selectively to enhance an operating transmission range and/or an operating data rate of one or more separate baseband processors which also receive video data from said N separate video camera radio module transmitters.
- 18. (Original) The RF multi-antenna video data capture system of claim 17, wherein said multi-antenna signal processing circuit processes at least 4 separate input signals representing a data stream multiplexed over 4 separate bit streams.

19. (Original) The RF multi-antenna access point system of claim 17, wherein space division multiple access is realized by separating different RF signals from different signal paths simultaneously in the single chip IC.

- 20. (Original) The RF multi-antenna access point system of claim 17, wherein a localized encryption is achieved by independently controlling an energy modulation of separate transmission antennas used simultaneously by each of said M separate transmission signals, so that data signals received by unintended recipients are indistinguishable from noise.
  - 21. (Previously Presented) An apparatus comprising:

a first data receiving circuit capable receiving data; and

a multi-antenna signal processing circuit capable of:

monitoring channel conditions;

operating in a first mode;

receiving M independent signals representing the data; and

processing the M independent signals using a channel mixing matrix and a signal from a second multi-antenna signal processing circuit to extract the data.

- 22. (Previously Presented) An apparatus according to claim 21, wherein the multiantenna signal processing circuit is capable of operating in a second mode in response to channel conditions indicating that a data rate in the channel has fallen below a predetermined threshold.
- 23. (Previously Presented) An apparatus according to claim 21, wherein the multiantenna signal processing circuit is capable of operating in a second mode in response to a determination that a data rate in the channel is to be enhanced above a nominal operating rate.

24. (Previously Presented) An apparatus according to claim 21, wherein the multiantenna signal processing circuit is enabled and selectively operates in a second mode in response to a determination that there is noise and/or interference in the channel.

- 25. (Previously Presented) An apparatus according to claim 21, wherein the multiantenna signal processing circuit is compatible with an 802.11x communications protocol.
- 26. (Previously Presented) An apparatus according to claim 21, wherein the multiantenna signal processing circuit is configured as a multiple-in, multiple out (MIMO) processor.
- 27. (Previously Presented) An apparatus according to claim 21, wherein the multiantenna signal processing circuit is capable of demodulating a data stream transmitted using multiple independent antennas which transmit a portion of the data stream, which data stream represents captured video from N separate radio module transmitters.
- 28. (Previously Presented) An apparatus according to claim 21, wherein the data is video data.
  - 29. (Previously Presented) A system comprising:
    - a first data monitoring and capturing circuit capable of receiving data from a first location;
    - a transmitter to transmit the data to a second location;
    - a first data receiving circuit at the second location for receiving the data;
    - a multi-antenna signal processing circuit capable of:

receiving M independent modulated signals representing the data; and

processing the M independent modulated signals using a channel mixing matrix and a signal received from a second multi-antenna signal processing circuit to extract the data; and

a data storage circuit capable of storing the data.

30. (Previously Presented) A system according to claim 29, wherein the first data monitoring and capturing circuit is part of a security system.

- 31. (Previously Presented) A system according to claim 29, wherein the multi-antenna signal processing circuit is incorporated within a personal digital assistant.
- 32. (Previously Presented) A system according to claim 29, wherein first data monitoring and capturing circuit is a digital camera.
- 33. (Previously Presented) A system according to claim 29, wherein the multi-antenna signal processing circuit is capable of receiving and processing data from N radio module transmitters simultaneously.
- 34. (Previously Presented) A system according to claim 29, wherein first data monitoring and capturing circuit is capable of transmitting the data using N separate antennas simultaneously as N separate bit streams.
- 35. (Previously Presented) A system according to claim 29, wherein the multi-antenna signal processing circuit is capable of processing at least 4 separate input signals representing a data stream multiplexed over 4 separate bit streams.
- 36. (Previously Presented) A system according to claim 29, implemented in a single chip integrated circuit.
- 37. (Previously Presented) A system according to claim 29, wherein a localized encryption is capable of being enabled by independently controlling an energy modulation of separate transmission antennas used simultaneously or nearly simultaneously by the M separate modulated signals.

38.-55. (Canceled)

56. (Previously Presented) The closed circuit broadcast security receiver of claim 1, wherein said signal from a second multi-antenna signal processing circuit comprises a recovered data signal.

- 57. (Previously Presented) The closed circuit video system of claim 10, wherein said signal from a second multi-antenna signal processing circuit comprises a recovered data signal.
- 58. (Previously Presented) The RF multi-antenna video data capture system of claim 17, wherein said signal from a second multi-antenna signal processing circuit comprises a recovered data signal.
- 59. (Previously Presented) The apparatus according to claim 21, wherein said signal from a second multi-antenna signal processing circuit comprises a recovered data signal.
- 60. (Previously Presented) The system according to claim 29, wherein said signal from a second multi-antenna signal processing circuit comprises a recovered data signal.